

# Michel Talagrand

## List of Publications by Year in descending order

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127  
papers

3,151  
citations

201385

27  
h-index

174990

52  
g-index

128  
all docs

128  
docs citations

128  
times ranked

836  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Matching Theorems. <i>Ergebnisse Der Mathematik Und Ihrer Grenzgebiete</i> , 2021, , 111-162.   | 0.3 | 0         |
| 2  | Scaling and non-standard matching theorems. <i>Comptes Rendus Mathematique</i> , 2018, 356, 692-695.  | 0.1 | 11        |
| 3  | A mean-field spin glass model based on diluted $\mathbb{Z}_2$ -statistics. <i>Probability Theory and Related Fields</i> , 2016, 165, 401-445. | 0.9 | 1         |
| 4  | Construction of pure states in mean field models for spin glasses. <i>Probability Theory and Related Fields</i> , 2010, 148, 601-643.         | 0.9 | 32        |
| 5  | A general form of certain mean field models for spin glasses. <i>Probability Theory and Related Fields</i> , 2009, 143, 97-111.               | 0.9 | 4         |
| 6  | A mean field model for spin glasses based on a 2-level perceptron. <i>Journal of Mathematical Physics</i> , 2008, 49, 125212.                 | 0.5 | 0         |
| 7  | Parisi measures. <i>Journal of Functional Analysis</i> , 2006, 231, 269-286.  | 0.7 | 38        |
| 8  | Selector processes on classes of sets. <i>Probability Theory and Related Fields</i> , 2006, 135, 471-486.                                     | 0.9 | 7         |
| 9  | Free energy of the spherical mean field model. <i>Probability Theory and Related Fields</i> , 2006, 134, 339-382.                             | 0.9 | 86        |
| 10 | Expected wasted space of optimal simple rectangle packing. <i>Probability Theory and Related Fields</i> , 2005, 131, 145-153.                 | 0.9 | 0         |
| 11 | Bounds for diluted mean-fields spin glass models. <i>Probability Theory and Related Fields</i> , 2004, 130, 319-336.                          | 0.9 | 99        |
| 12 | Type and infratype in symmetric sequence spaces. <i>Israel Journal of Mathematics</i> , 2004, 143, 157-180.                                   | 0.4 | 2         |
| 13 | SELF ORGANIZATION IN THE LOW TEMPERATURE REGION OF A SPIN GLASS MODEL. <i>Reviews in Mathematical Physics</i> , 2003, 15, 1-78.               | 0.7 | 8         |
| 14 | Vapnik–Chervonenkis type conditions and uniform Donsker classes of functions. <i>Annals of Probability</i> , 2003, 31, 1565.                  | 0.8 | 9         |
| 15 | An assignment problem at high temperature. <i>Annals of Probability</i> , 2003, 31, 818.  | 0.8 | 4         |
| 16 | On the Gaussian Perceptron at High Temperature. <i>Mathematical Physics Analysis and Geometry</i> , 2002, 5, 77-99.                           | 0.4 | 2         |
| 17 | The high temperature case for the random K-sat problem. <i>Probability Theory and Related Fields</i> , 2001, 119, 187-212.                    | 0.9 | 16        |
| 18 | On the Hopfield model at the critical temperature. <i>Probability Theory and Related Fields</i> , 2001, 121, 237-268.                         | 0.9 | 3         |

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|----|---|-----|-----------|
| 19 | The Random Weighted Interval Packing Problem: The Intermediate Density Case. <i>Mathematics of Operations Research</i> , 2000, 25, 105-117.               | 0.8 | 1         |
| 20 | Multiple levels of symmetry breaking. <i>Probability Theory and Related Fields</i> , 2000, 117, 449-466.  | 0.9 | 5         |
| 21 | Rigorous low-temperature results for the mean field $p$ -spins interaction model. <i>Probability Theory and Related Fields</i> , 2000, 117, 303-360.      | 0.9 | 66        |
| 22 | Replica symmetry breaking and exponential inequalities for the Sherrington-Kirkpatrick model. <i>Annals of Probability</i> , 2000, 28, 1018.              | 0.8 | 15        |
| 23 | Intersecting random half-spaces: toward the Gardner-Derrida formula. <i>Annals of Probability</i> , 2000, 28, 725.  | 0.8 | 10        |
| 24 | Exponential inequalities and convergence of moments in the replica-symmetric regime of the Hopfield model. <i>Annals of Probability</i> , 2000, 28, 1393. | 0.8 | 17        |
| 25 | Concentration and influences. <i>Israel Journal of Mathematics</i> , 1999, 111, 275-284.  | 0.4 | 9         |
| 26 | Self averaging and the space of interactions in neural networks. <i>Random Structures and Algorithms</i> , 1999, 14, 199-213.                             | 0.6 | 7         |
| 27 | A General Lower Bound for Gaussian Chaos. <i>Journal of Theoretical Probability</i> , 1998, 11, 289-301.  | 0.4 | 2         |
| 28 | Title is missing!. <i>Journal of Theoretical Probability</i> , 1998, 11, 157-179.   | 0.4 | 2         |
| 29 | The Sherrington-Kirkpatrick model: a challenge for mathematicians. <i>Probability Theory and Related Fields</i> , 1998, 110, 109-176.                     | 0.9 | 56        |
| 30 | Rigorous results for the Hopfield model with many patterns. <i>Probability Theory and Related Fields</i> , 1998, 110, 177-275.                            | 0.9 | 60        |
| 31 | Multiple points of trajectories of multiparameter fractional Brownian motion. <i>Probability Theory and Related Fields</i> , 1998, 112, 545-563.          | 0.9 | 36        |
| 32 | Selecting a proportion of characters. <i>Israel Journal of Mathematics</i> , 1998, 108, 173-191.  | 0.4 | 17        |
| 33 | On boundaries and influences. <i>Combinatorica</i> , 1997, 17, 275-285.   | 0.6 | 24        |
| 34 | On the Convexified Sauer-Shelah Theorem. <i>Journal of Combinatorial Theory Series B</i> , 1997, 69, 183-192.   | 0.6 | 20        |
| 35 | Convergence in Distribution for Best-Fit Decreasing. <i>SIAM Journal on Computing</i> , 1996, 25, 894-906.  | 0.8 | 2         |
| 36 | A new look at independence. <i>Annals of Probability</i> , 1996, 24, 1.   | 0.8 | 172       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Majorizing measures: the generic chaining. <i>Annals of Probability</i> , 1996, 24, 1049.                          | 0.8 | 176       |
| 38 | Lower classes for fractional Brownian motion. <i>Journal of Theoretical Probability</i> , 1996, 9, 191-213.        | 0.4 | 30        |
| 39 | Fractional Brownian motion and packing dimension. <i>Journal of Theoretical Probability</i> , 1996, 9, 579-593.    | 0.4 | 23        |
| 40 | The Glivenko-Cantelli problem, ten years later. <i>Journal of Theoretical Probability</i> , 1996, 9, 371-384.      | 0.4 | 36        |
| 41 | How much are increasing sets positively correlated?. <i>Combinatorica</i> , 1996, 16, 243-258.                     | 0.6 | 62        |
| 42 | New concentration inequalities in product spaces. <i>Inventiones Mathematicae</i> , 1996, 126, 505-563.            | 1.3 | 335       |
| 43 | Sections of smooth convex bodies via majorizing measures. <i>Acta Mathematica</i> , 1995, 175, 273-300.            | 1.4 | 26        |
| 44 | Orlicz property and cotype in symmetric sequence spaces. <i>Israel Journal of Mathematics</i> , 1994, 87, 181-192. | 0.4 | 3         |
| 45 | The Supremum of Some Canonical Processes. <i>American Journal of Mathematics</i> , 1994, 116, 283.                 | 0.5 | 51        |
| 46 | Dual bin packing with items of random sizes. <i>Mathematical Programming</i> , 1993, 58, 229-242.                  | 1.6 | 3         |
| 47 | On-Line Bin Packing of Items of Random Sizes, II. <i>SIAM Journal on Computing</i> , 1993, 22, 1251-1256.          | 0.8 | 8         |
| 48 | On Line Bin Packing with Items of Random Size. <i>Mathematics of Operations Research</i> , 1993, 18, 438-445.      | 0.8 | 28        |
| 49 | Cotype and $(q, 1)$ -summing norm in a Banach space. <i>Inventiones Mathematicae</i> , 1992, 110, 545-556.         | 1.3 | 54        |
| 50 | Cotype of operators from $C(K)$ . <i>Inventiones Mathematicae</i> , 1992, 107, 1-40.                               | 1.3 | 47        |
| 51 | Type, infratype and the Elton-Pajor theorem. <i>Inventiones Mathematicae</i> , 1992, 107, 41-59.                   | 1.3 | 25        |
| 52 | On vector-valued random Fourier series. <i>Journal of Theoretical Probability</i> , 1992, 5, 327-331.              | 0.4 | 0         |
| 53 | Sudakov-type minoration for gaussian chaos processes. <i>Israel Journal of Mathematics</i> , 1992, 79, 207-224.    | 0.4 | 9         |
| 54 | On the long edges in the shortest tour through $N$ random points. <i>Combinatorica</i> , 1992, 12, 323-330.        | 0.6 | 2         |

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|----|---|-----|-----------|
| 55 | Packing random items of three colors. <i>Combinatorica</i> , 1992, 12, 331-350.   | 0.6 | 2         |
| 56 | Complete Convergence of the Directed TSP. <i>Mathematics of Operations Research</i> , 1991, 16, 881-887.  | 0.8 | 1         |
| 57 | Multidimensional Optimal Bin Packing with Items of Random Size. <i>Mathematics of Operations Research</i> , 1991, 16, 490-503.                        | 0.8 | 6         |
| 58 | A note on the selection of random variables under a sum constraint. <i>Journal of Applied Probability</i> , 1991, 28, 919-923.                        | 0.4 | 19        |
| 59 | Embedding Subspaces of $L^1$ into $l^1$ . <i>Proceedings of the American Mathematical Society</i> , 1990, 108, 363.                                   | 0.4 | 28        |
| 60 | The three-space problem for $\ell^1$ . <i>Journal of the American Mathematical Society</i> , 1990, 3, 9-29.   | 1.9 | 7         |
| 61 | A conjecture on convolution operators, and a non-Dunford-Pettis operator on $L^1$ . <i>Israel Journal of Mathematics</i> , 1989, 68, 82-88.           | 0.4 | 13        |
| 62 | On the $k$ -center problem with many centers. <i>Operations Research Letters</i> , 1989, 8, 309-314.  | 0.5 | 2         |
| 63 | The law of the iterated logarithm for empirical processes on Vapnik-Červonenkis classes. <i>Journal of Multivariate Analysis</i> , 1989, 30, 155-166. | 0.5 | 16        |
| 64 | Optimal Bin Packing with Items of Random Sizes III. <i>SIAM Journal on Computing</i> , 1989, 18, 473-486.   | 0.8 | 24        |
| 65 | Optimal Bin Covering with Items of Random Size. <i>SIAM Journal on Computing</i> , 1989, 18, 487-498.   | 0.8 | 4         |
| 66 | The Complete Convergence of Best Fit Decreasing. <i>SIAM Journal on Computing</i> , 1989, 18, 909-918.  | 0.8 | 5         |
| 67 | The Complete Convergence of First Fit Decreasing. <i>SIAM Journal on Computing</i> , 1989, 18, 919-938.   | 0.8 | 2         |
| 68 | Optimal Bin Packing with Items of Random Sizes II. <i>SIAM Journal on Computing</i> , 1989, 18, 139-151.  | 0.8 | 15        |
| 69 | A Sharp Deviation Inequality for the Stochastic Traveling Salesman Problem. <i>Annals of Probability</i> , 1989, 17, 1.                               | 0.8 | 38        |
| 70 | Martingale Inequalities, Interpolation and NP-Complete Problems. <i>Mathematics of Operations Research</i> , 1989, 14, 91-96.                         | 0.8 | 12        |
| 71 | A Concentration Inequality for the $k$ -Median Problem. <i>Mathematics of Operations Research</i> , 1989, 14, 189-202.                                | 0.8 | 13        |
| 72 | Donsker classes of sets. <i>Probability Theory and Related Fields</i> , 1988, 78, 169-191.  | 0.9 | 19        |

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|----|---|-----|-----------|
| 73 | Chevet's theorem for stable processes II. Journal of Theoretical Probability, 1988, 1, 65-92.   | 0.4 | 3         |
| 74 | The Structure of Sign-Invariant GB-Sets and of Certain Gaussian Measures. Annals of Probability, 1988, 16, 172.   | 0.8 | 3         |
| 75 | Necessary Conditions for Sample Boundedness of $p$ -Stable Processes. Annals of Probability, 1988, 16, 1584.  | 0.8 | 9         |
| 76 | Exact bounds for the stochastic upward matching problem. Transactions of the American Mathematical Society, 1988, 307, 109-125.                         | 0.5 | 19        |
| 77 | Martingale Inequalities and NP-Complete Problems. Mathematics of Operations Research, 1987, 12, 177-181.  | 0.8 | 81        |
| 78 | Donsker Classes and Random Geometry. Annals of Probability, 1987, 15, 1327.   | 0.8 | 16        |
| 79 | Banach sublattices of weakL 1. Israel Journal of Mathematics, 1987, 59, 257-271.  | 0.4 | 7         |
| 80 | Regularity of gaussian processes. Acta Mathematica, 1987, 159, 99-149.  | 1.4 | 185       |
| 81 | Uniform bound in the central limit theorem for Banach space valued dependent random variables. Journal of Multivariate Analysis, 1986, 20, 303-320.     | 0.5 | 14        |
| 82 | Martingale inequalities and the Jackknife estimate of variance. Statistics and Probability Letters, 1986, 4, 5-6.                                       | 0.4 | 13        |
| 83 | Uniform convexity and the distribution of the norm for a Gaussian measure. Probability Theory and Related Fields, 1986, 71, 59-67.                      | 0.9 | 21        |
| 84 | Renormages de Quelques $(K)$ . Israel Journal of Mathematics, 1986, 54, 327-334.  | 0.4 | 41        |
| 85 | Derivation, $L^{\infty}$ -Bounded Martingales and Covering Conditions. Transactions of the American Mathematical Society, 1986, 293, 257.               | 0.5 | 2         |
| 86 | Invariant means on an ideal. Transactions of the American Mathematical Society, 1985, 288, 257-272.   | 0.5 | 1         |
| 87 | A Choquet theorem for general subspaces of vector-valued functions. Mathematical Proceedings of the Cambridge Philosophical Society, 1985, 98, 323-326. | 0.3 | 2         |
| 88 | Espaces de Baire et espaces de Namioka. Mathematische Annalen, 1985, 270, 159-164.  | 0.7 | 39        |
| 89 | Choquet simplexes whose set of extreme points is $K$ -analytic. Annales De L'Institut Fourier, 1985, 35, 195-206.                                       | 0.2 | 7         |
| 90 | A new countably determined Banach space. Israel Journal of Mathematics, 1984, 47, 75-80.  | 0.4 | 28        |

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|-----|---|-----|-----------|
| 91  | Sur l'intégrabilité des vecteurs gaussiens. Zeitschrift Für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1984, 68, 1-8.  | 0.8 | 25        |
| 92  | Quand l'espace des mesures à variation bornée est-il faiblement séquentiellement complet?. Proceedings of the American Mathematical Society, 1984, 90, 285-285.                       | 0.4 | 3         |
| 93  | Points extrêmes dans le dual de $L^1(\mu, E)$ . Proceedings of the American Mathematical Society, 1984, 91, 265-265.  | 0.4 | 0         |
| 94  | Propriétés de Nikodym et propriétés de Grothendieck. Studia Mathematica, 1984, 78, 165-171.   | 0.4 | 10        |
| 95  | On spreading models in $L^1(E)$ . Annales Scientifiques De L'Ecole Normale Supérieure, 1984, 17, 433-438.   | 0.2 | 0         |
| 96  | La structure des espaces de Banach réticulés ayant la propriété de Radon-Nikodym. Israel Journal of Mathematics, 1983, 44, 213-220.   | 0.4 | 7         |
| 97  | La propriété de Dunford-Pettis dans $C(K, E)$ et $L^1(E)$ . Israel Journal of Mathematics, 1983, 44, 317-321.   | 0.4 | 29        |
| 98  | Mesures Gaussiennes sur un espace localement convexe. Zeitschrift Für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1983, 64, 181-209.  | 0.8 | 5         |
| 99  | Three convex sets. Proceedings of the American Mathematical Society, 1983, 89, 601-607.   | 0.4 | 2         |
| 100 | Un espace de Banach réticulé qui a presque la propriété de Radon-Nikodym. Studia Mathematica, 1983, 76, 255-266.  | 0.4 | 2         |
| 101 | Espaces de Banach représentables. Israel Journal of Mathematics, 1982, 41, 321-330.   | 0.4 | 22        |
| 102 | Filtres: mesurabilité, rapidité, propriété de Baire forte. Studia Mathematica, 1982, 74, 283-291.   | 0.4 | 11        |
| 103 | La pathologie des relèvements invariants. Proceedings of the American Mathematical Society, 1982, 84, 379-382.  | 0.4 | 2         |
| 104 | Non existence de relèvement pour certaines mesures finiment additives et rétractés de $\mathbb{R}^2$ . Mathematische Annalen, 1981, 256, 63-66.                                       | 0.7 | 6         |
| 105 | On Berry-Esseen type bounds for $m$ -dependent random variables valued in certain banach spaces. Zeitschrift Für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1981, 58, 433-451. | 0.8 | 7         |
| 106 | La régularité des mesures Gaussiennes. Zeitschrift Für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1981, 57, 213-221.   | 0.8 | 8         |
| 107 | Dual banach lattices and Banach lattices with the Radon-Nikodym property. Israel Journal of Mathematics, 1981, 38, 46-50.   | 0.4 | 10        |
| 108 | Dans Un Espace de Banach Reticule Solide, La Propriete de Radon-Nikodym et Celle de Krein-Milman Sont Equivalentes. Proceedings of the American Mathematical Society, 1981, 81, 93.   | 0.4 | 5         |

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|-----|---|-----|-----------|
| 109 | Les mesures vectorielles à valeurs dans $\mathbb{L}^0$ sont bornées. Annales Scientifiques De L'Ecole Normale Supérieure, 1981, 14, 445-452.                | 0.2 | 16        |
| 110 | Ergodic measures, almost periodic points and discrete orbits. Illinois Journal of Mathematics, 1981, 25, .  | 0.1 | 0         |
| 111 | A simple example of pathological submeasure. Mathematische Annalen, 1980, 252, 97-102.  | 0.7 | 17        |
| 112 | Certaines formes linéaires pathologiques sur un espace de Banach dual. Israel Journal of Mathematics, 1980, 35, 171-176.                                    | 0.4 | 5         |
| 113 | Separabilité vague dans l'espace des mesures sur un compact. Israel Journal of Mathematics, 1980, 37, 171-180.  | 0.4 | 16        |
| 114 | Un Nouveau $\aleph_1$ (K) Qui Possède la Propriété de Grothendieck. Israel Journal of Mathematics, 1980, 37, 181-191.                                       | 0.4 | 37        |
| 115 | Liftings of functions with values in a completely regular space. Proceedings of the American Mathematical Society, 1980, 78, 345-345.                       | 0.4 | 4         |
| 116 | Compacité extrême. Proceedings of the American Mathematical Society, 1980, 80, 68-68.   | 0.4 | 18        |
| 117 | Compacts de fonctions mesurables et filtres non mesurables. Studia Mathematica, 1980, 67, 13-43.  | 0.4 | 100       |
| 118 | A decomposition theorem for additive set-functions, with applications to Pettis integrals and ergodic means. Mathematische Zeitschrift, 1979, 168, 117-142. | 0.4 | 59        |
| 119 | Sur la $\aleph_1$ -Analyticité de Certains Espaces d'Opérateurs. Israel Journal of Mathematics, 1979, 32, 124-130.  | 0.4 | 7         |
| 120 | Barycentres de sous-mesures pathologiques. Mathematische Annalen, 1979, 242, 97-102.  | 0.7 | 0         |
| 121 | Espaces de Banach Faiblement $\aleph_1$ -Analytiques. Annals of Mathematics, 1979, 110, 407.  | 2.1 | 163       |
| 122 | On $\aleph_1$ -closed sets. Mathematika, 1979, 26, 30-32.   | 0.3 | 10        |
| 123 | Deux généralisations d'un théorème de I. Namioka. Pacific Journal of Mathematics, 1979, 81, 239-251.  | 0.2 | 20        |
| 124 | Title is missing!. Indiana University Mathematics Journal, 1978, 27, 1001.  | 0.4 | 17        |
| 125 | Capacités invariantes extrêmes. Annales De L'Institut Fourier, 1978, 28, 79-146.  | 0.2 | 10        |
| 126 | Sommes vectorielles d'ensembles de mesure nulle. Annales De L'Institut Fourier, 1976, 26, 137-172.  | 0.2 | 0         |



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|-----|--|-----|-----------|
| 127 | What is the satisfiability threshold of random balanced Boolean expressions?. Random Structures and Algorithms, 0, , . | 0.6 | 0         |